

Weekly Report

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Work has been done

1. I have finished reading the paper *Social Action Tracking via Noise Tolerant Time-varying Factor Graphs* and *Determinants of Crime Propensity: Individual Characteristics and Behavioral Patterns*. The former one is recommended in the group of NetEase Games Group, and the latter in the Public Security Group. It may not be difficult to read the paper or to understand the complicated formulae, but I still cannot figure out why or how they do so step by step. So far I haven't develop a systematic knowledge in these fields and I must read more and think more about them.
2. Finished reading Chap.5, Chap.6 of *Statistical Learning Method*. As I mentioned above, I haven't develop the *system*. This book has offered a framework for me to learn. Many of the formulae in the paper can be easily found in the book, and demos can help me better understand them.
3. Proceeded learning R. The testing data is still under pre-processing by Gu Tianyu. I may join in the encoding of some fields of data.

Work to be done

1. To have some discussion with Gu Tianyu and Lin Zhenjie about the Public Security Data project.
2. Since WU Feiran hasn't finished the ultimate scheme of the mobile station project, we may only introduce section 2,3 as the material of English Writing Class.
3. To Proceed reading the book *Statistical Learning Method* and finish Chap.7, Chap.8, Chap.9 and R.